

Title (en)
Image distortion correction

Title (de)
Korrektur einer Bildverzerrung

Title (fr)
Correction de distortion d'image

Publication
EP 2083388 A3 20090923 (EN)

Application
EP 09150002 A 20090102

Priority
JP 2008016364 A 20080128

Abstract (en)
[origin: EP2083388A2] A distortion included in image data is corrected by performing a coordinate transformation with respect to the image data based on { $X = x + a + by^2$; $Y = y$ } where x and y represents coordinates of a transformation destination with a center of a screen as an origin, X and Y represents coordinates of a transformation source with the center of the screen as an origin, and a and b are coordinate transformation coefficients.

IPC 8 full level
G06T 5/00 (2006.01); **G06T 3/00** (2006.01); **H04N 23/12** (2023.01)

CPC (source: EP US)
G06T 3/047 (2024.01 - EP US); **G06T 3/4015** (2013.01 - EP US); **G06T 5/80** (2024.01 - EP US)

Citation (search report)

- [A] US 2004202380 A1 20041014 - KOHLER THORSTEN [DE], et al
- [A] WONPIL YU ET AL: "A calibration-free lens distortion correction method for low cost digital imaging", PROCEEDINGS 2003 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (CAT. NO.03CH37429) IEEE PISCATAWAY, NJ, USA, vol. 1, 2003, pages I - 813, XP010670119, ISBN: 0-7803-7750-8
- [A] BRAUER-BURCHARDT C ET AL: "A new algorithm to correct fish-eye- and strong wide-angle lens-distortion from single images", PROCEEDINGS 2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2001. THESSALONIKI, GREECE, OCT. 7 - 10, 2001; [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING], NEW YORK, NY : IEEE, US, vol. 1, 7 October 2001 (2001-10-07), pages 225 - 228, XP010564837, ISBN: 978-0-7803-6725-8

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CZ303039B6; EP3133804A4; EP2566162A3; US9167216B2; US8971622B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2083388 A2 20090729; EP 2083388 A3 20090923; CN 101500077 A 20090805; CN 101500077 B 20120125; JP 2009177703 A 20090806; JP 4911628 B2 20120404; US 2009190855 A1 20090730; US 8218897 B2 20120710

DOCDB simple family (application)
EP 09150002 A 20090102; CN 200910005967 A 20090122; JP 2008016364 A 20080128; US 31894109 A 20090113